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Setting up the Development Environment

1. Install Visual Studio Code

Download and install VSCode from the official website:

https://code.visualstudio.com/download

2. Install USB Drivers

The driver is required for Windows to recognize the ESP32.

- Download the Silicon Labs CP210x Windows Drivers: https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers
- 2. Extract the downloaded archive CP210x_Windows_Drivers.zip
- 3. Install the driver by running CP210xVCPInstaller_x64.exe

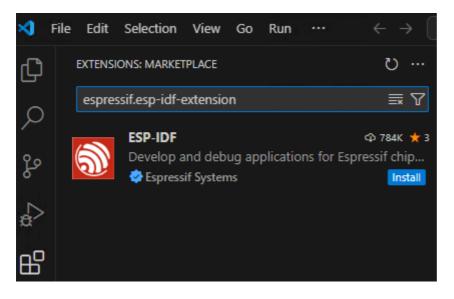
3. Install Visual C++ Redistributable

The Visual C++ Redistributable is required for compiling the project.

- 1. Download the latest version of the Visual C++ Redistributable Packages from the Microsoft website: https://learn.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist
- 2. Run the downloaded file and follow the instructions to complete the installation.

4. Install ESP-IDF Extension

- 1. Open VSCode.
- 2. Open the Extensions view:
 - Via the Extensions icon in the sidebar or
 - Using the shortcut Ctrl + Shift + X.
- 3. Enter espressif.esp-idf-extension in the search field.
- 4. Install the first result **ESP-IDF** by clicking "Install".



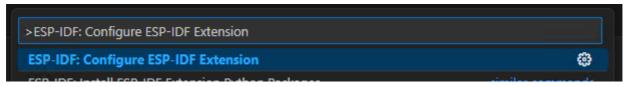
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Alternatively, you can install the extension directly from the Visual Studio Marketplace: ESP-IDF

5. Set up the ESP-IDF Extension

After installation, the extension needs to be configured.

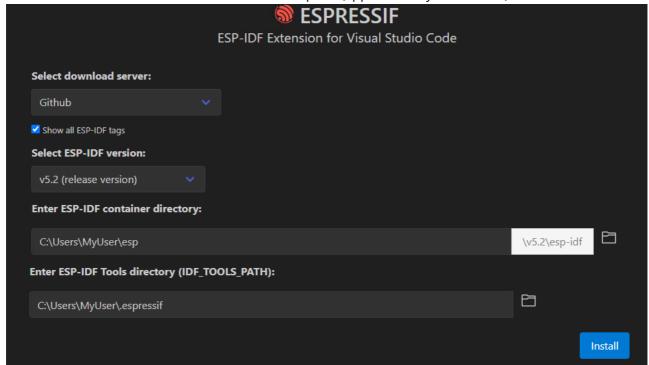
1. Open the ESP-IDF Explorer: Press F1 in VSCode, type ESP-IDF: Configure ESP-IDF Extension, and select it.



2. Select Express Setup Mode.



- 3. Enable the checkbox **Show all ESP-IDF tags**.
- 4. For Select ESP-IDF version, choose version v5.2 (release version).
- 5. Click "Install" and wait for the installation to complete (approximately 10 minutes).



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Status: Visual Studio Code Version 1.95.3, ESP-IDF Extension Version 1.9.0, Visual C++ Redistributable 14.42.34433.0